

## Analysis Report

Tetra Tech, Inc.

Tetra Tech, Inc.

ELLE Sample #:

ELLE Group #:

Matrix: Water

2425 New Molland Pike, Lancaster, PA 17691 • 747-656-2300 • Fax: 717-656-6766 • www.Eurotinal/S.com/LanciabsEnv

Partial Report

Ex. 6 - Personal Privacy

Ex. 6 - Personal Privacy

Sample Description:

**Project Name:** 

Ex. 6 - Personal Privacy

Wolverine World Wide

**Wolverine World Wide Tannery** 

ELLE Sample #: **ELLE Group #:** Matrix: Water

Submittal Date/Time: 12/29/2017 10:00 Collection Date/Time: 12/27/2017 14:20 SDG#: Ex. 6 - Personal Privacy

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
Misc. (	Organics EPA 53	7 Version 1.1	ng/l	ng/l	
14070	NEtFOSAA	2991-50-6	N.D.	2	1
	NEtFOSAA is the acronym for N-ethy	/l perfluorooctanesulfonar	midoacetic Acid.		
14070	NMeFOSAA	2355-31-9	N.D.	2	1
	NMeFOSAA is the acronym for N-me	ethyl perfluorooctanesulfo	namidoacetic Acid.		
14070	Perfluorobutanesulfonate	375-73-5	N.D.	2	1
14070	Perfluorodecanoic acid	335-76-2	N.D.	2	1
14070	Perfluorododecanoic acid	307-55-1	N.D.	2	1
14070	Perfluoroheptanoic acid	375-85-9	N.D.	2	1
14070	Perfluorohexanesulfonate	355-46-4	N.D.	2	1
14070	Perfluorohexanoic acid	307-24-4	N.D.	2	1
14070	Perfluorononanoic acid	375-95-1	N.D.	2	1
14070	Perfluoro-octanesulfonate	1763-23-1	N.D.	2	1
14070	Perfluorooctanoic acid	335-67-1	N.D.	2	1
14070	Perfluorotetradecanoic acid	376-06-7	N.D.	3	1
14070	Perfluorotridecanoic acid	72629-94-8	N.D.	2	1
14070	Perfluoroundecanoic acid	2058-94-8	N.D.	2	1
The .	anno anno anno anno anno anno anno anno	atitica al la la calculation de			

The recovery for PFHxS in the laboratory fortified blank duplicate (LFBD) is outside of QC acceptance limits as noted on the QC Summary. The data reported should be considered prelimimary as this sample will be re-extracted.

#### **Laboratory Sample Analysis Record**

Method CAT Batch# Dilution **Analysis Name Analysis** Analyst Date and Time Factor No. Full List PFAS - DW 18004006 01/08/2018 07:47 14070 EPA 537 Version 1.1 Marissa C Drexinger

Sample Description:

Ex. 6 - Personal Privacy

335-76-2

Orvernie vvoria vviae

**Project Name: Wolverine World Wide Tannery** 

Submittal Date/Time: 12/29/2017 10:00 Collection Date/Time: 12/27/2017 14:30 SDG#: Ex. 6 - Personal Privacy

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
Misc.	Organics	EPA 537 Version 1.1	ng/l	ng/l	
14070	NEtFOSAA	2991-50-6	N.D.	2	1
	NEtFOSAA is the acros	nym for N-ethyl perfluorooctanesulfonar	nidoacetic Acid.		
14070	NMeFOSAA	2355-31-9	N.D.	2	1
	NMeFOSAA is the acro	onym for N-methyl perfluorooctanesulfo	namidoacetic Acid.		
14070	Perfluorobutanesulfona	ate 375-73-5	15	2	1

N.D.

Reference ID:

14070

1891721080118164347

Perfluorodecanoic acid



## Analysis Report

2428 New Holland Pike, Lancaster, PA 17681 • 757-656-2300 • Fax: 717-656-6766 • www.EurotinaliS.com/LanciabsEnv

Partial Report

Sample Description:

**Project Name:** 

Ex. 6 - Personal Privacy

Wolverine World Wide

**Wolverine World Wide Tannery** 

 Submittal Date/Time:
 12/29/2017 10:00

 Collection Date/Time:
 12/27/2017 14:30

 SDG#:
 Ex. 6 - Personal Privacy

Tetra Tech, Inc.
ELLE Sample #:
ELLE Group #:
Matrix: Water

Ex. 6 - Personal Privacy

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
Misc. C	<b>Drganics</b>	EPA 537 Version 1.1	ng/l	ng/l	
14070	Perfluorododecanoic acid	307-55-1	N.D.	2	1
14070	Perfluoroheptanoic acid	375-85-9	4 J	2	1
14070	Perfluorohexanesulfonate	355-46-4	5	2	1
14070	Perfluorohexanoic acid	307-24-4	8	2	1
14070	Perfluorononanoic acid	375-95-1	N.D.	2	1
14070	Perfluoro-octanesulfonate	1763-23-1	9	2	1
14070	Perfluorooctanoic acid	335-67-1	14	2	1
14070	Perfluorotetradecanoic aci	id 376-06-7	N.D.	3	1
14070	Perfluorotridecanoic acid	72629-94-8	N.D.	2	1
14070	Perfluoroundecanoic acid	2058-94-8	N.D.	2	1
The r	ecovery for PFHxS in the lat	boratory fortified blank duplicate			

The recovery for PFHxS in the laboratory fortified blank duplicate (LFBD) is outside of QC acceptance limits as noted on the QC Summary. The data reported should be considered prelimimary as this sample will be re-extracted.

### **Laboratory Sample Analysis Record**

CAT	Analysis Name	Method	Trial#	Batch#	Analysis	Analyst	Dilution
No.					Date and Time		Factor
14070	Full List PFAS - DW	EPA 537 Version 1.1	1	18004006	01/08/2018 07:58	Marissa C Drexinger	1

Sample Description:

**Project Name:** 

### Ex. 6 - Personal Privacy

**Wolverine World Wide Tannery** 

 Submittal Date/Time:
 12/29/2017 10:00

 Collection Date/Time:
 12/27/2017 15:05

 SDG#:
 Ex. 6 - Personal Privacy

Tetra Tech, Inc.
ELLE Sample #:
ELLE Group #:
Matrix: Water

	i	<u>i</u>				
CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor	
Misc. (	<b>Drganics</b>	EPA 537 Version 1.1	ng/l	ng/l		
14070	NEtFOSAA	2991-50-6	N.D.	2	1	
	NEtFOSAA is the acronyr	n for N-ethyl perfluorooctanesulfonar	nidoacetic Acid.			
14070	NMeFOSAA	2355-31-9	N.D.	2	1	
	NMeFOSAA is the acrony	m for N-methyl perfluorooctanesulfor	namidoacetic Acid.			
14070	Perfluorobutanesulfonate	375-73-5	14	2	1	
14070	Perfluorodecanoic acid	335-76-2	N.D.	2	1	
14070	Perfluorododecanoic acid	307-55-1	N.D.	2	1	
14070	Perfluoroheptanoic acid	375-85-9	4 J	2	1	
14070	Perfluorohexanesulfonate	355-46-4	4 J	2	1	
14070	Perfluorohexanoic acid	307-24-4	8	2	1	
14070	Perfluorononanoic acid	375-95-1	N.D.	2	1	
14070	Perfluoro-octanesulfonate	1763-23-1	7	2	1	

Reference ID:

1891721080118164347



Sample Description:

**Project Name:** 

Lancaster Laboratories Environmental

# Analysis Report

2425 New Holland Pike, Lancaster, PA 17681 • 757-656-2300 • Fax: 717-656-6766 • www.EurotineitS.com/LanciabsEnv

Ex. 6 - Personal Privacy

**Wolverine World Wide** 

**Wolverine World Wide Tannery** 

Submittal Date/Time: 12/29/2017 10:00 Collection Date/Time: 12/27/2017 15:05 SDG#: Ex. 6 - Personal Privacy

Tetra Tech, Inc. **ELLE Sample #: ELLE Group #:** Matrix: Water

Tetra Tech, Inc.

ELLE Sample #:

**ELLE Group #:** 

Matrix: Water

Ex. 6 - Personal Privacy

Ex. 6 - Personal Privacy

Partial Report

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
Misc. (	Organics EF	PA 537 Version 1.1	ng/l	ng/l	
14070	Perfluorooctanoic acid	335-67-1	12	2	1
14070	Perfluorotetradecanoic acid	376-06-7	N.D.	3	1
14070	Perfluorotridecanoic acid	72629-94-8	N.D.	2	1
14070	Perfluoroundecanoic acid	2058-94-8	N.D.	2	1
The r	ecovery for PEHxS in the labora	tory fortified blank duplicate			

(LFBD) is outside of QC acceptance limits as noted on the QC Summary. The data reported should be considered prelimimary as this sample will be re-extracted.

### **Laboratory Sample Analysis Record**

CAT	Analysis Name	Method	Trial#	Batch#	Analysis	Analyst	Dilution
No.					Date and Time		Factor
14070	Full List PFAS - DW	EPA 537 Version 1.1	1	18004006	01/08/2018 08:22	Marissa C Drexinger	1

Ex. 6 - Personal Privacy Sample Description:

Wolverine World Wide

**Project Name: Wolverine World Wide Tannery** 

Submittal Date/Time: Collection Date/Time: SDG#:

12/29/2017 10:00 .12/27/2017 15:58

Ex. 6 - Personal Privacy

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor	
Misc. C	Organics EPA 5	37 Version 1.1	ng/l	ng/l		
14070	NEtFOSAA	2991-50-6	N.D.	2	1	
	NEtFOSAA is the acronym for N-eth	yl perfluorooctanesulfonar	nidoacetic Acid.			
14070	NMeFOSAA	2355-31-9	N.D.	2	1	
	NMeFOSAA is the acronym for N-m	ethyl perfluorooctanesulfo	namidoacetic Acid.			
14070	Perfluorobutanesulfonate	375-73-5	N.D.	2	1	
14070	Perfluorodecanoic acid	335-76-2	N.D.	2	1	
14070	Perfluorododecanoic acid	307-55-1	N.D.	2	1	
14070	Perfluoroheptanoic acid	375-85-9	N.D.	2	1	
14070	Perfluorohexanesulfonate	355-46-4	N.D.	2	1	
14070	Perfluorohexanoic acid	307-24-4	N.D.	2	1	
14070	Perfluorononanoic acid	375-95-1	N.D.	2	1	
14070	Perfluoro-octanesulfonate	1763-23-1	N.D.	2	1	
14070	Perfluorooctanoic acid	335-67-1	N.D.	2	1	
14070	Perfluorotetradecanoic acid	376-06-7	N.D.	3	1	
14070	Perfluorotridecanoic acid	72629-94-8	N.D.	2	1	
14070	Perfluoroundecanoic acid	2058-94-8	N.D.	2	1	
The r	ecovery for PFHxS in the laboratory fo	rtified blank duplicate				

(LFBD) is outside of QC acceptance limits as noted on the QC Summary.

Reference ID: 1891721080118164347



## Analysis Report

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Partial Report

Ex. 6 - Personal Privacy

Sample Description:

**Project Name:** 

CAT

No.

CAT

14070

No.

Ex. 6 - Personal Privacy

wolverine world wide

**Wolverine World Wide Tannery** 

Submittal Date/Time: Collection Date/Time: SDG#:

12/29/2017 10:00 12/27/2017 15:58 Ex. 6 - Personal Privacy

Analysis Name

CAS Number

Result

Method Detection Limit Dilution Factor

The data reported should be considered prelimimary as this sample

Full List PFAS - DW

will be re-extracted.

**Laboratory Sample Analysis Record** 

Analysis Name

Method

EPA 537 Version 1.1

Trial#

Batch# 18004006 Analysis Date and Time 01/08/2018 08:45 Analyst

Tetra Tech, Inc.

ELLE Sample #:

**ELLE Group #:** 

Matrix: Water

Dilution Factor

Marissa C Drexinger 1

Reference ID: 1891721080118164347

# Environmental Analysis Request/Chain of Custody

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# Environmental Analysis Request/Chain of Custody

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# Environmental Analysis Request/Chain of Custody

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Client Information  Matrix  Analysis Requested  For Lab Use Only  For Campliance  New Only  For Campliance  For Campliance  Yes No M  Sample Identification  Date Time  Turnaround Time (TAT) Requested (please circle)  For Campliance  Yes No M  Turnaround Time (TAT) Requested (please circle)  For Campliance  Yes No M  For Campliance  For Campliance  For Campliance  Yes No M  For Campliance  For Lab Use Only  For Campliance  Fo		1	tories	Acct. #	1045	<u>_</u> 0	aroup	#	8917	2/ 5	Sample	#	13	85	393	<u>0 -</u>	21			U	UC F	F 04	0033
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### Sample Administration Receipt Documentation Log

Doc Log ID: 205017

Group Number(s): 1891721

MSG/TETRA TECH Client:

**Delivery and Receipt Information** 

Delivery Method: Fed Ex Arrival Timestamp: 12/29/2017 10:00

Number of Packages: Number of Projects: 4 1

State/Province of Origin: MI

**Arrival Condition Summary** 

Shipping Container Sealed: Sample IDs on COC match Containers: Yes Yes Sample Date/Times match COC: Custody Seal Present: Yes Yes Yes N/A

Custody Seal Intact: VOA Vial Headspace ≥ 6mm:

Total Trip Blank Qty: 0 Samples Chilled: Yes

Air Quality Samples Present: No Paperwork Enclosed: Yes

Samples Intact: Yes

Missing Samples: No Extra Samples: No

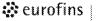
Discrepancy in Container Qty on COC: No

Unpacked by Wendy Wakeley (1669) at 11:06 on 12/29/2017

#### Samples Chilled Details

DT = Digital (Temp. Bottle) IR = Infrared (Surface Temp) All Temperatures in °C. Thermometer Types:

Cooler#	Thermometer ID	Corrected Temp	Therm. Type	Ice Type	Ice Present?	Ice Container	Elevated Temp?
1	DT146	3.6	DT	Wet	Υ	Bagged	N
2	DT146	1.3	DT	Wet	Υ	Bagged	N
3	DT146	0.4	DT	Wet	Υ	Bagged	N
4	DT146	1.0	DT	Wet	Υ	Bagged	N



**BMQL** 

Dry weight

basis

Lancaster Laboratories Environmental

Below Minimum Quantitation Level

### **Explanation of Symbols and Abbreviations**

milligram(s)

The following defines common symbols and abbreviations used in reporting technical data:

	Dolow William additional Edvor	9	nungram(o)
С	degrees Celsius	mL	milliliter(s)
cfu	colony forming units	MPN	Most Probable Number
CP Units	cobalt-chloroplatinate units	N.D.	non-detect
F	degrees Fahrenheit	ng	nanogram(s)
g	gram(s)	NTU	nephelometric turbidity units
IU	International Units	pg/L	picogram/liter
kg	kilogram(s)	RL	Reporting Limit
L	liter(s)	TNTC	Too Numerous To Count
lb.	pound(s)	μg	microgram(s)
m3	cubic meter(s)	μL	microliter(s)
meq	milliequivalents	umhos/cm	micromhos/cm
<	less than		
>	greater than		
ppm	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg) or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.		
ppb	parts per billion		

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Results printed under this heading have been adjusted for moisture content. This increases the analyte weight

concentration to approximate the value present in a similar sample without moisture. All other results are reported on an

Measurement uncertainty values, as applicable, are available upon request.

as-received basis.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff.

This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" are not performed within 15 minutes.

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### **Data Qualifiers**

Qualifier	Definition	
С	Result confirmed by reanalysis	
D1	Indicates for dual column analyses that the result is reported from column 1	
D2	Indicates for dual column analyses that the result is reported from column 2	
Ε	Concentration exceeds the calibration range	
J (or G, I, X)	Estimated value >= the Method Detection Limit (MDL or DL) and < the Limit of Quantitation (LOQ or RL)	
Р	Concentration difference between the primary and confirmation column >40%. The lower result is reported.	
U	Analyte was not detected at the value indicated	
V	Concentration difference between the primary and confirmation column >100%. The reporting limit is raised due to this disparity and evident interference.	
W	The dissolved oxygen uptake for the unseeded blank is greater than 0.20 mg/L.	
Z	Laboratory Defined - see analysis report	

Additional Organic and Inorganic CLP qualifiers may be used with Form 1 reports as defined by the CLP methods. Qualifiers specific to Dioxin/Furans and PCB Congeners are detailed on the individual Analysis Report.